

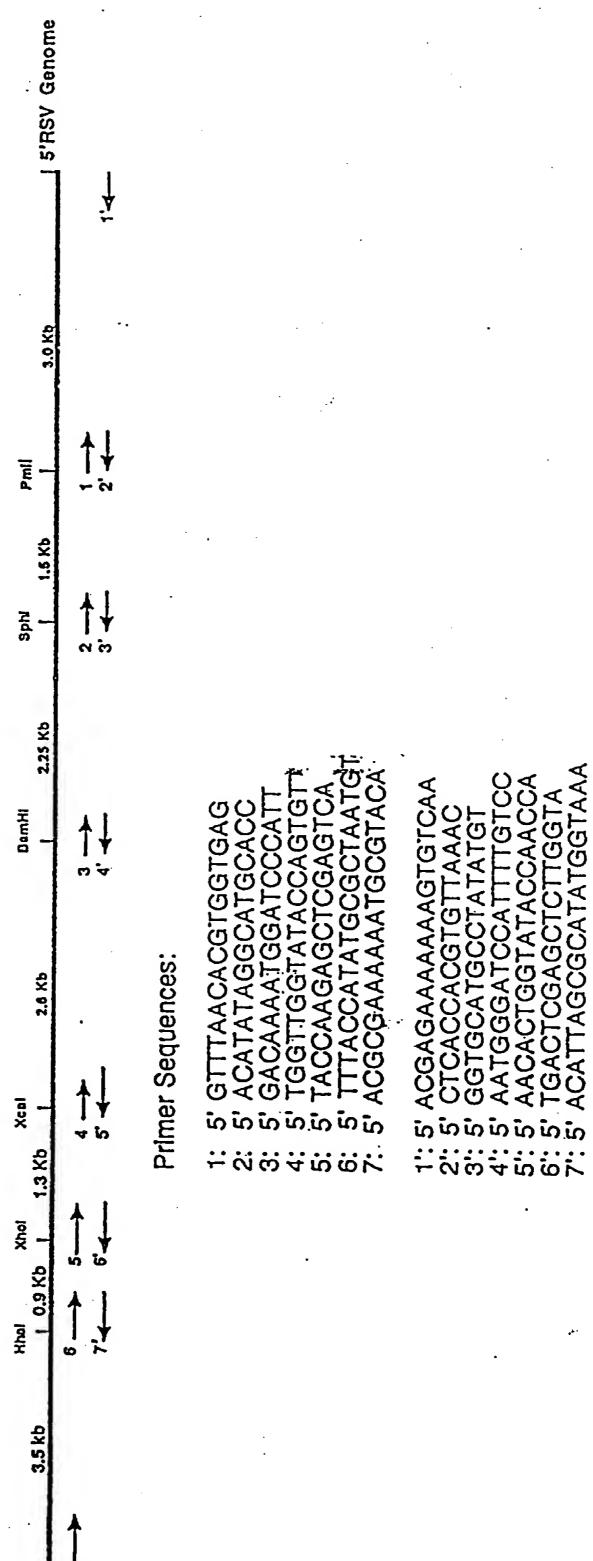
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 \mathfrak{M} 2 Acetylated Forms of [14C] Chloramphenicol Unmodified [14C] Chloramphenicol

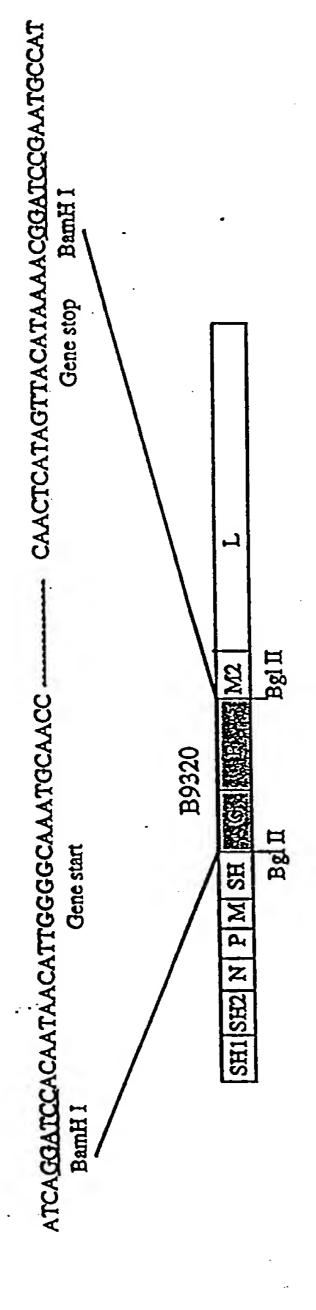
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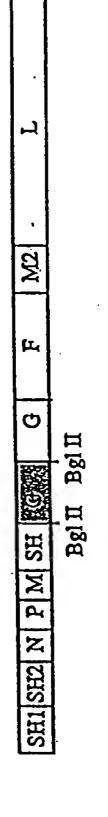
A. RSVB-GF



B. RSVB9320G-F/M2

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M2	Bg1 II
RON	Ввіп
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SHI SH2 N P M SH	
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SH2	
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C. RSVB9320G-SH/G



FIGS. 4A-C

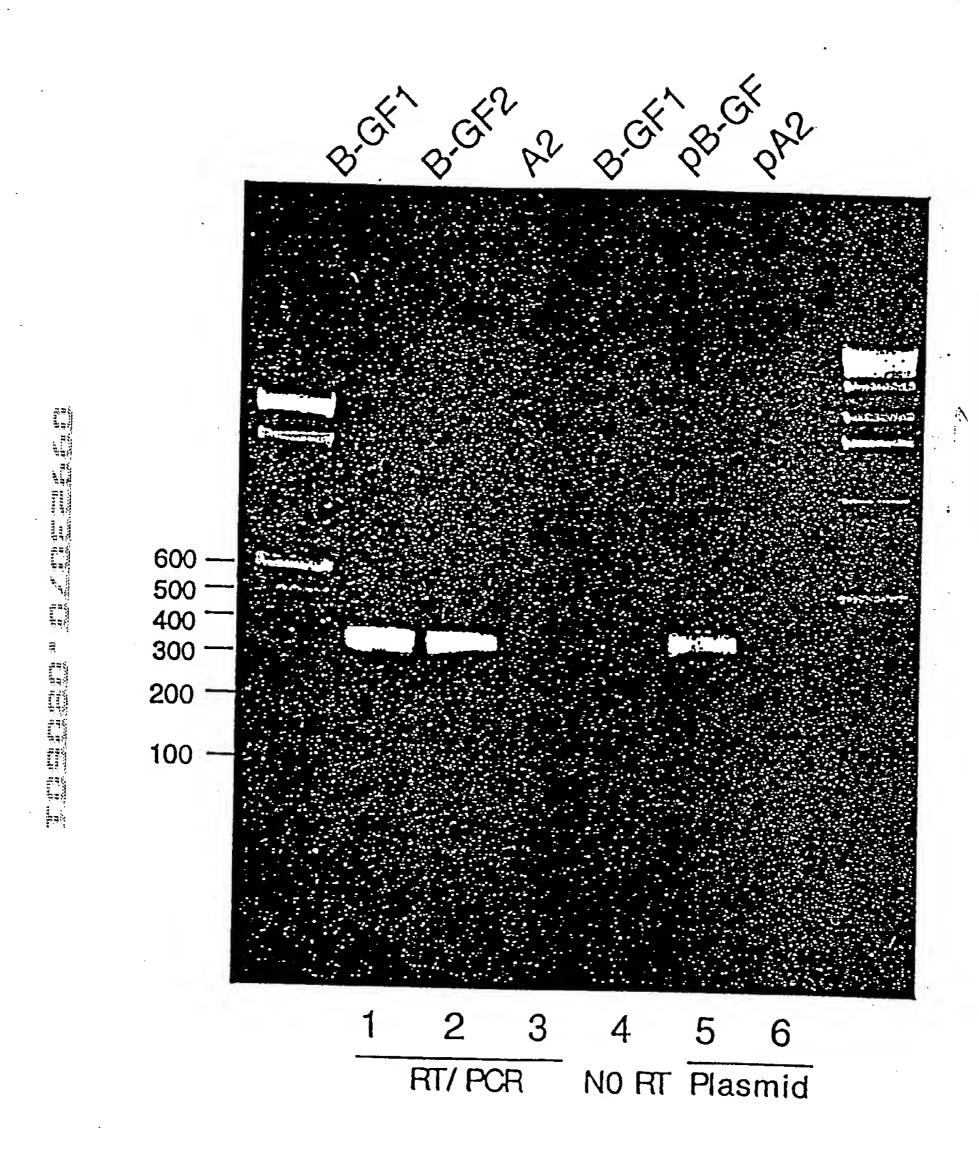
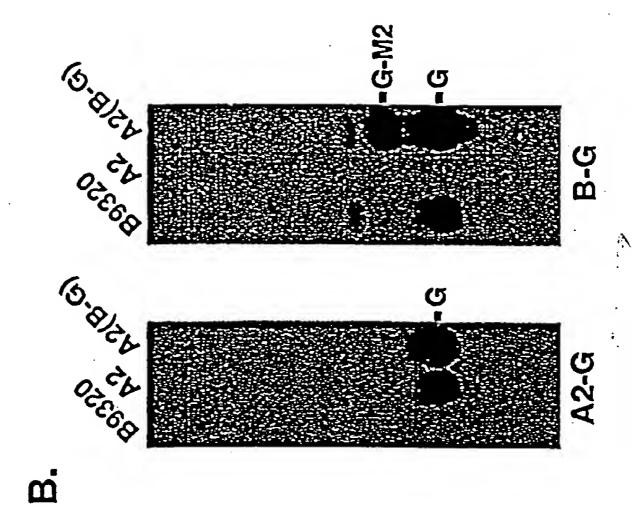
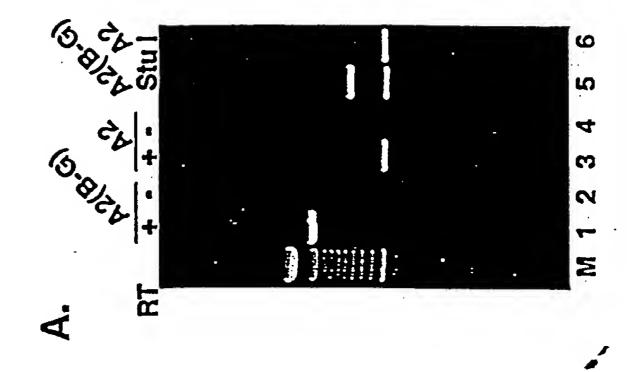


FIG. 5

FIGS, 6A-B





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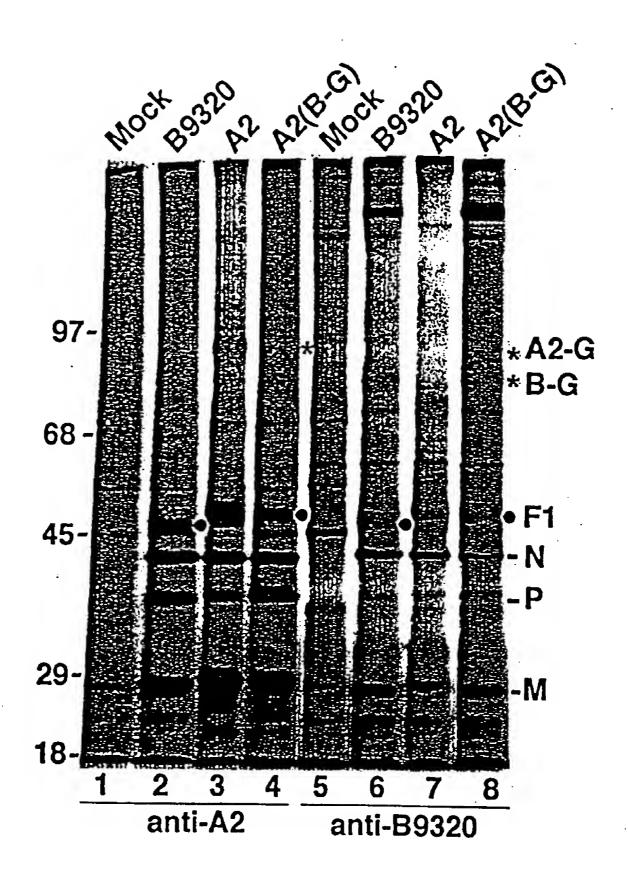


FIG. 7

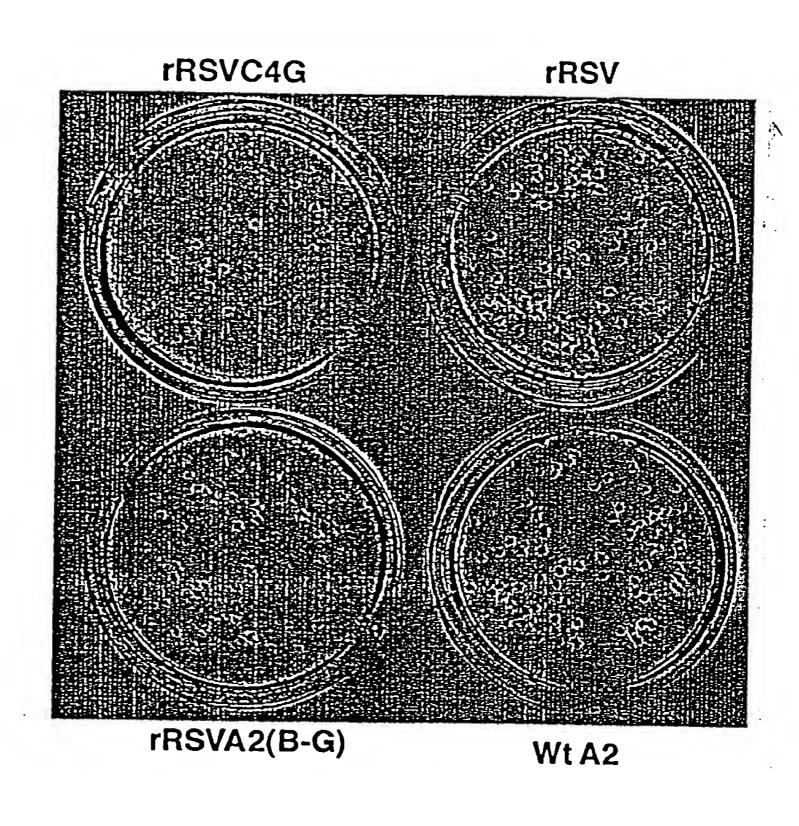


FIG. 8



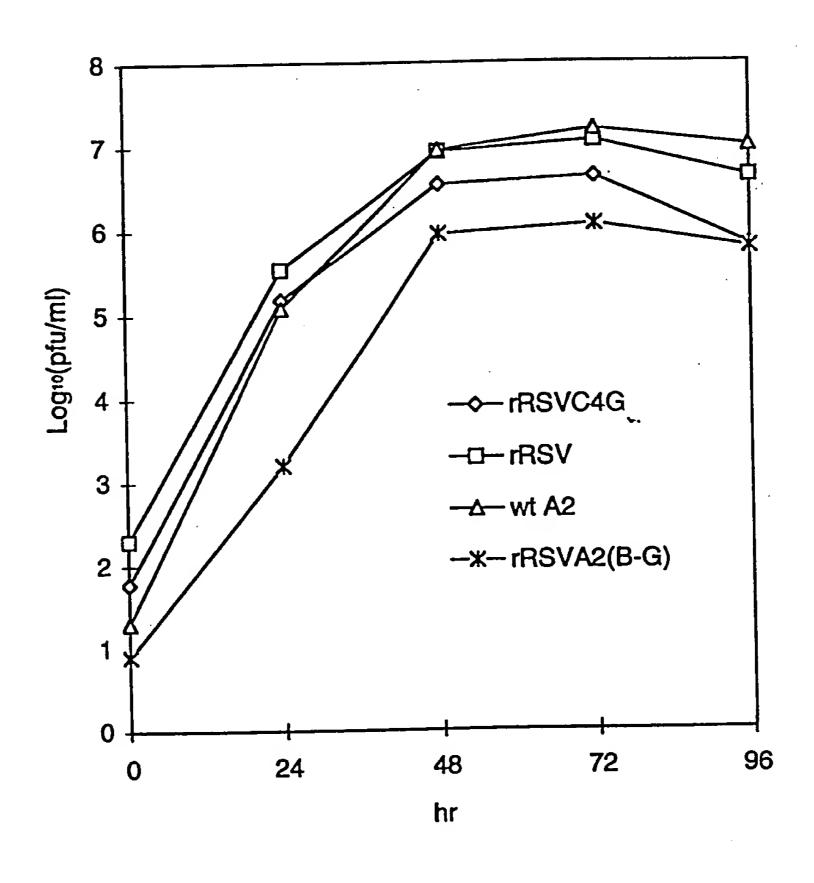


FIG. 9



75	150	225	300	375	450	525	009	675	750	825	900	975	1050	1125	1200	1275	1350	1425	1500	1575	1650	1.725	1800	1875	1950	2025	H	2165	
LKKLNITQSLISKYH	KDKIKSNNGODEDNS	YTKLMNILTQYRSNE			EROAMDAVKINCNET	RDLIVLSGLRFYREF	YLR DNKFNECDLYNC	RYGDLELQKILELKA			KVLRVGPWINTILDD	نلز	LNKFLTCIITFDKNP	MONIEPTYPHGLRVV	_			ILIPKINEIHIMKPP	FINITYILSTINLAGHW	SDLLCVLELIDSSYW	MKAILTYIDLVRMGL	ETLENILANPIKSND	TAKSNQLYTTTSHQI	LRTWVELHPDIRYIY	DAELSVTVNWSKIII	IGPANIFPVENVVON	SIAGRNEVESNKLIN	NEHNE	-
TNLISRONPLIEHMN	DVKVYAILNKLGLKE	SMOHPPSWLIHWFNL	TWKDISLSRLNVCLI	ITEEDOFRKRFYNSM	ELYFLFRIFGHPMVD	YYKLNTYPSLLELTE	LKFSESDKSRRVLEY	MIAENILOFFPESLT	DELHGVQSLFSWLHL	ISLKGKFSITALING	KTIQHNGVYYPASIK	LCNNKLYLDILKVLK	NHDLKDKLQDLSDDR	SAQHYTTTEIDINDI	KNITLLIRILPLDCN	YNVNSLTRGERGPTK	YEKAKKLFPQYLSVN	MSVVEQFTNVCPNRI	HVNSNLILAHKISDY	HKGYGKAKLECDMNT	TVCPWVVNIDYHPTH	SELENNYNKLYHPTP	FPMVVIDRIIDHSGN	PNCIAFIGEGAGNLL	YLHIKFAEPISLFVC	LGSKLKGSEVYLVLT	LSKLKSVVSGDILSY	NELKKLIKITGSLLY	~
DSYLKGVISFSECNA LESYTFNGPYLKNDY TNLTSRONPLIEHMN	TNLLKKIIRRAIEIS	QKDTIKTTLLKKLMC	KELKRITVTTYNOFL	IIKEVEGFIMSLILN	KLIKLAGDNINLINILS	PTLRNAIVLPLRWLT	NYMPSHIQNYIEHEK		QAFRYETSCICSDVL	COKLWTIEAISLLDL	KGTETYISRDMQFMS	VWLYNQIALQLKNHA	TEAIVHSVFILSYYT	VTEVLSTAPNKIFSK	AIDLTDIDRATEMMR	KYTTSTISSGIIIEK	DEFMEELSIGTLGLT	IDIVEQNCISFGLSL	YVELFLSNKTLKSGS	LKVFFNAYKTYLLCF	SFKLWFLKRLNVAEF	SDNTHLLTKHIRIAN	AMIRTNYSKODLYNL	KISIEVILKDLKIKD	LTIPATDATMIHWS	DEKLDNITILKTYVC	PFLCYPITKKGINTA	STYPYLSELLNSLTT	
DSYLKGVISFSECNA				YGDCILKLFHNEGFY			AISPPKNLIWTSFPR		YISKCSIITDLSKFN	OSGLYRYHMGGIEGW	LKLLYKEYAGIGHKL	EYRGESLLCSLIFRN	NLLYRSFYRRTPDFL	SEROAKITSEINRLA	ISGTKSITNILEKTS	IVGVTSPSIMYTMDI	LLAKLDWVYASIDNK	SPINRILTEKYGDED	OKOHMELPDKISLTO	KDWGEGYITDHMFIN	ILSQDASLHRVKGCH	DEFYTSNLFYINYNF	IMLPLLSNKKLIKSS	HHINRENFVFSSTGC	LRLYNGHINIDYGEN	NKCMLIVKYHAQDDI	KADKESIDANIKSLI	FRSTELNYNHLYMVE	
MDPIINGNSANVYLT	KGETKLEEPTYFOSL	VITTITEDDILSAVK	VKONHGFTLIDNOTLS	LRCGENNVILTOLFL	LSRVCHTLLDKTVSD	KFYLLSSLSMLRGAF	RLPKKVDLEMIINDK	VVNOSYLANNENHVVS	GISNKSNRYNDNYNN	PYIGDHIVDLANVDE	GOTHAQADYLLALMS	FKVSLESIGSLTOEL	TLYMNLPMLFGGGDP 1	NAEFVTLMRDPOALG	YESLPFYKAEKIVNL	ELSKYVRERSWSLSN	YNROVLTKKORDQID	ASIPAYRITMYHEDT	IFTGDVDIHKLKOVI	ILIIOLMKDSKGIFE	KSMSKVFLEOKVIKY	INIDRIHIKNKHKFN	KKTINDYCIGKNVDS	SLVHNSTSLYCMLPW	RSLKDCNDHSLPIEF	EWSKHVRKCKYCSSV	AKLILSRTKNFIMPK	HXHMILKWFNHVLN	

Charged Clusters (Amino Acids Mutations in cpts-248/404 Mutation in cpts530

FIG. 10

to alamines)

are underlined were changed

that



75 150		0	375	S	525	\mathbf{C}	675	750	825	900	975	.1050	1125	1200	1275	1350	1425	1500	1575	1650	1725	1800	1875	1950	2025		2165	
LKKLNITQSLISKYH KDKIKSNNGQDEDNS	YTKLNNILTQYRSNE	IMISNCINTINKSIG	LINNITDAANKAQKNL	ERQAMDAVKINCNET	RDLIVLSGLRFYREF	YLRDNKFNECDLYNC	RYGDLELQKILELKA	TIPHVTIICTYRHAP	DNQSIDISKPIRLME	KVLRVGPWINTILDD	HLKTFFNLDNIDTAL	LNKFLTCIITFDKNP	MONIEPTYPHGLRVV	RDKREILSMENLSIT	PWVGSSTQEKKTMPV	YLHRLTVSSRPCEFP	ILIPKLNEIHLMKPP	FEINTYILSTINLAGHW	SDLLCVLELIDSSYW	MKAILTYIDLVRMGL	ETLENILANPIKSND	TAKSNQLYTTTSHQI	LRTWELHPDIRYIY	DAELSVTVNWSKIII	IGPANIFPVFNVVQN	SIAGRNEVFSNKLIN	NFHNE	
TNLISRONPLIEHMN DVKVYAILNKLGLKE	SMOHPPSWLIHWFNL	TWKDISLSRLMVCLI	ITEEDQFRKRFYNSM	ELYFLFRIFGHPMVD	YYKLNTYPSLLELTE	LKFSESDKSRRVLEY	MIAENILQFFPESLT	DELHGVQSLFSWLHL	ISLKGKFSITALING	KTIOHNGVYYPASIK	LCNNKLYLDILKVLK	NHDLKDKLQDLSDDR	SAQHYTTTEIDINDI	KNITELIRILPEDEN	YNVNSLTRGERGPTK	YEKAKKLFPQYLSVN	MSVVEQFINVCPNRI	HVNSNLILAHKISDY	HKGYGKAKLECDMNT	TVCPWVVNIDYHPTH	SELENNYNKLYHPTP	FPMVVIDRIIDHSGN	PNCIAFIGEGAGNLL	YLHIKFAEPISLFVC	LGSKLKGSEVYLVLT	KLKSVVSGDILSY	NELKKLIKITGSLLY	
LGSYIFNGPYLKNDY	QKDTIKTTLLKKLMC	KELKRITVTTYNQFL	IIKEVEGFIMSLILN	KLIKLAGDNNLNNLS	PTLRNAIVLPLRWLT	NYMPSHIQNYIEHEK	MOPGMFROVQILAEK	QAFRYETSCICSDVL	COKLWTIEAISLLDL	KGTETYISRDMQFWS	VWLYNQIALQLKNHA	TEAIVHSVFILSYYT	VTEVLSTAPNKIFSK	AIDLIDIDRATEMMR	KYTTSTISSGILIEK	DEFMEELSIGTLGLT	IDIVFQNCISFGLSL	YVELFLSNKTLKSGS	LKVFFNAYKTYLLCF	SFKLWFLKRLNVAEF	SDNTHLLTKHIRIAN	AMIRINYSKODLYNL	KISIEYILKDLKIKD	LTIPATDATUNIHMS	DEKLDNITILKTYVC	PFLCYPITKKGINTA	STYPYLSELLNSLTT	
DSYLKGVISFSECNA	DNOSHLKADKNHSTK	GFOFILNOYGCIVYH	YGDCILKLFHNEGFY	NIINGRWIILLSKFL	IYRIIKGFVNNYNRW	AISPPKNLIWTSFPR	LTGKERELSVGRMFA	YISKCSIITDLSKFN	QSGLYRYHMGGIEGW	LKLLYKEYAGIGHKL	EYRGESLLCSLIFRN	NLLYRSFYRRTPDFL	SERQAKITSEINRLA	ISGTKSITWILEKTS	IVGVTSPSIMYTMDI	LLAKLDWYZASIDNK	SPINRILTEKYGDED	OKOHMFLPDKISLTO	KDWGEGYITDHMFIN	ILSQDASLHRVKGCH	DEFYTSNLFYINYNF	IMLPLLSNKKLIKSS	HHINRENEVESSIGC	LRLYNGHINIDYGEN	NKCMLIVKYHAQDDI	KADKESIDANIKSLI	FRSTELNYNHLYMVE	
MDPIINGNSANVYLT KGEIKLEEPTYFOSL	VITTIKDDILSAVK	VKNEGFTLIDNOTLS	LRCGENNVILLTOLFL	LSRVCHTLLDKTVSD	KFYLLSSLSMLRGAF	RLPKKVDLEMIINDK	WINOSYLANDINHWVS	GISNKSNRYNDNYNN	PYIGDHIVDLANVDE	GOTHAQADYLLALNS	FKVSLESIGSLTOEL	TLYMNLPMLFGGGDP	NAEFVTLMRDPQALG	YESLPFYKAEKIVNL	ELSKYVRERSWSLSN	YNROVLTKCKORDQID	ASIPAYRTTNYHEDT	IFTGDVDIHKLKQVI	ILITOLMKDSKGIFE	KSMSKVFLEQKVIKY	INIDRIHIKNKHKEN	KKTLNDYCIGKNVDS	SLVHNSTSLYCMLPW	RSLKDCNDHSLPIEF	EWSKHVRKCKYCSSV	AKLILSRTKNFIMPK	HKHWNI LKWFNHVLN	

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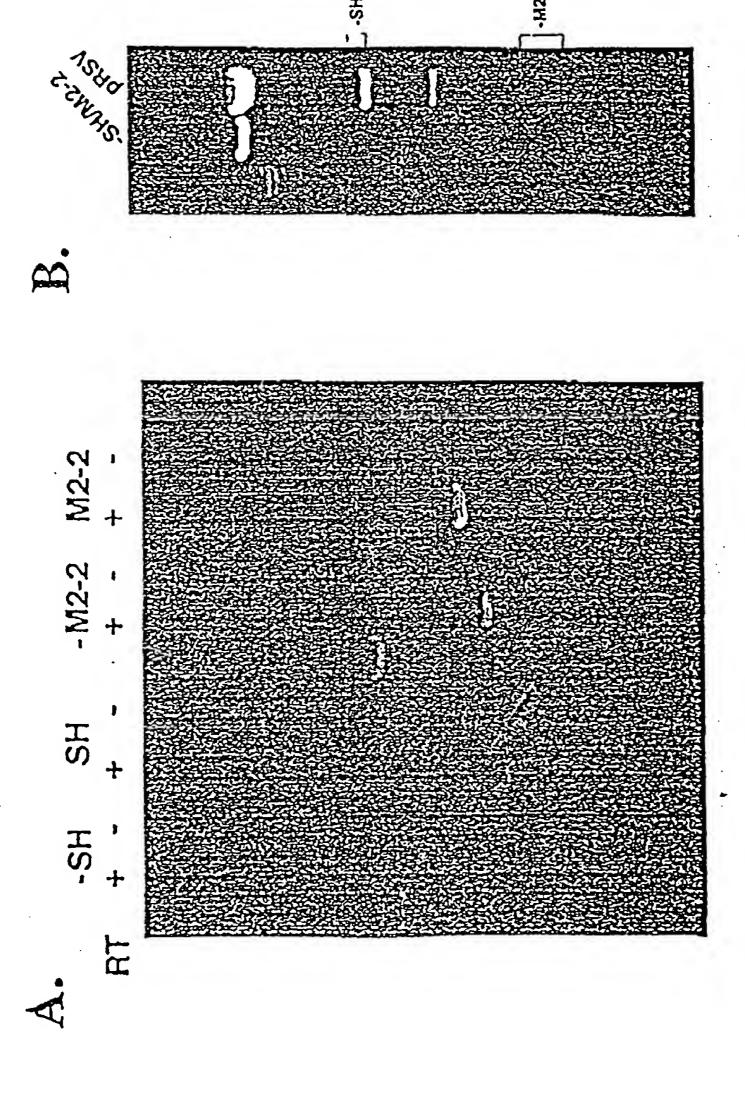
Cysteine residues that were changed to valine

Cysteine residue deleted

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Cysteine residues





FIGS. 12A-B